

In the Claims

- 1 1. (currently amended) A computer implemented method for ordering
- 2 multimedia content, comprising the steps of:
 - 3 segmenting the multimedia content to extract objects;
 - 4 extracting and associating features of the objects to produce content
 - 5 entities, wherein the content entities are recursive data structures comprising
 - 6 features, relations, directed acyclic graphs and containment sets;
 - 7 coding the content entities to produce directed acyclic graphs of the
 - 8 content entities, each directed acyclic graph representing a particular
 - 9 interpretation of the multimedia content;
 - 10 measuring attributes of each content entity; and
 - 11 assigning the measured attributes to each corresponding content entity
 - 12 in the directed acyclic graphs to rank order the content entities of the
 - 13 multimedia content; and
 - 14 comparing the ordered content entities in a plurality of the directed
 - 15 acyclic graphs to determine similar interpretations of the multimedia
 - 16 content.
- 1 2. (original) The method of claim 1 wherein the measured attributes include
- 2 intensity attributes.
- 1 3. (original) The method of claim 1 wherein the measured attributes include
- 2 direction attributes.

1 4. (currently amended) The method of claim 1 wherein the measured
2 attributes include spatial attributes and the order is spatial.

1 5. (currently amended) The method of claim 1 wherein the measured
2 attributes include temporal attributes and the order is temporal.

1 6. (original) The method of claim 1 wherein the measured attributes are
2 arranged in an increasing rank order.

1 7. (original) The method of claim 1 wherein the measured attributes are
2 arranged in an decreasing rank order.

1 8. (currently amended) The method of claim 1 further comprising the step
2 of:

3 traversing the multimedia content according to the directed ~~ayclic~~
4 acyclic graph and the measured attributes assigned to the content entities.

1 9. (currently amended) The method of claim 1 further comprising the step
2 of:

3 summarizing the multimedia content according to the directed ~~ayclic~~
4 acyclic graph and the measured attributes assigned to the content entities.

1 10. (original) The method of claim 1 wherein the multimedia content is a
2 three dimensional video sequence.

3 11. (original) The method of claim 1 wherein nodes of the directed acyclic
4 graphs represent the content entities and edges represent breaks in the
5 segmentation, and the measured attributes are associated with the
6 corresponding edges.

1 12. (original) The method of claim 8 wherein at least one secondary content
2 entity is associated with a particular content entity, and wherein the
3 secondary content entity is selected during the traversing.

1 13. (original) The method of claim 9 wherein a summary of the multimedia
2 is a selected permutation of the content entities according to the associated
3 ranks.